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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Copy for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.: P-01800-US1

Total Pages: 2

First Named Inventor or Application identifier:

Michael D. Hitchcock et al.

Express Mail Label No.: EJ057690753US



APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, D.C. 20231
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1. Fee Calculation — at bottom of this transmittal form.
2. Specification — Total Pages: 20, including 5 page(s) of claims
3. Six (6) sheets total drawing(s) (Figs. 1-6) (35 U.S.C. 113)
4. Oath or Declaration — Total pages: 3
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (38 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]
 - i. Deletion of Inventor(s). Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
 - c. Unsigned.
5. Incorporation by Reference [useable if Box 4b is checked].
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. Microfiche Computer Program (*Appendix*)
7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer readable copy
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 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. Assignment papers (cover sheet & document(s))
9. 37 CFR 3.73(b) Statement (when there is an assignee)
 - Power of Attorney
10. English Translation Document (if applicable)
11. Information Disclosure Statement (IDS)/PTO-1449
 - Copies of IDS citations
12. Preliminary Amendment
13. Return receipt postcard (MPEP 503) (Should be specifically itemized)
14. Small entity statement(s)
 - Statement filed in prior application, status still proper and desired
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By: S. Leslie Marlow
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18. **CORRESPONDENCE ADDRESS**

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Correspondence address below:

Name: Michael O. Scheinberg
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Austin, Texas 78701
Telephone: (512) 322-5272
Facsimile: (512) 320-4598

19. **FEE CALCULATION FORM**

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✓	Fee for:	Entity		Amount
		<input checked="" type="checkbox"/> Small	<input type="checkbox"/> Other	
✓	Basic fee	\$345.00	\$690.00	\$345.00
	Each independent claim in excess of 3	0 x \$39.00	0 x \$78.00	0.00
✓	Each claim* in excess of 20	4 x \$9.00	0 x \$18.00	36.00
	Multiple dependent claim (one-time fee)	x \$130.00	0 x \$260.00	0.00
✓	Assignment recordations fee (one assignment enclosed, with cover recordations form cover sheet)			40.00
*Including the total number of claims to which direct reference is made in all multiple dependent claims		TOTAL FILING FEE --		\$421.00

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Any additional filing fees required under 37 CFR 1.16.

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Michael O. Scheinberg
Reg. No. 36,919
ATTORNEY OF RECORD

Applicant or Patentee: Michael D. Hitchcock, James H. Wolfston, Matthew W. Hickey
 Serial or Patent No.: _____
 Filed or Issued: _____
 For: A Method for Paperless Attachment of Supplementary forms to a World Wide Web Application

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
 (37 CFR 1.9(f) and 1.27(c)) — SMALL BUSINESS CONCERN**

I hereby declare that I am

the owner of the small business concern identified below:
 an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: CollegeNET, Inc.
 ADDRESS OF CONCERN: One S.W. Columbia, Suite 100
Portland, Oregon 97258

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled A METHOD FOR PAPERLESS ATTACHMENT OF SUPPLEMENTARY FORMS TO A WORLD WIDE WEB APPLICATION, by inventor(s), Michael D. Hitchcock, described in:

the specification filed herewith
 application Serial No. _____, filed _____.
 Patent No. _____, issued _____.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27).

NAME: None

ADDRESS: _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

NAME: _____

ADDRESS: _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: James H. Wolfston, Jr.
TITLE OF PERSON OTHER THAN OWNER: President
ADDRESS OF PERSON SIGNING: One S.W. Columbia, Suite 100
Portland, Oregon 97258

SIGNATURE: James H. Gray DATE: FEB 4, 2000

Applicant: Michael D. Hitchcock, James H. Wolfston, Matthew W. Hickey

Serial No.: _____

Filed: _____

Title: A Method for Paperless Attachment of Supplementary Forms to a World Wide Web Application

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b)) — INDEPENDENT INVENTOR**

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled, **A Method for Paperless Attachment of Supplementary Forms to a World Wide Web Application**, described in

the specification filed herewith
 application Serial No. _____, filed _____.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, convey, or license any rights in the invention is listed below:

no such person, concern or organization
 persons, concerns or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27).

FULL NAME: CollegeNET, Inc.ADDRESS: One S.W. Columbia, Suite 100, Portland, OR 97258

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

FULL NAME: _____

ADDRESS: _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Michael D. HitchcockJames H. WolfstonMatthew W. Hickey

Name of Inventor

Name of Inventor

Name of Inventor

Signature of Inventor

Signature of Inventor

Signature of Inventor

Michael D. HitchcockJames H. WolfstonMatthew W. Hickey

Attorney Docket No.: P-01800-US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.:

Filing Date: 2/9/2000

Applicant: Michael D. Hitchcock et al.

Title: A Method for Paperless Attachment of Supplementary Forms to a World Wide Web Application

Art Unit:

Examiner: _____

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

In accordance with 37 CFR. 1.72, please append the attached abstract to the application after the claims. No new matter is added.

ABSTRACT

An electronic copy of a paper document, such as high school transcript, can be attached to an electronic document, such as an application for admission to an institution. The high school providing the paper document is required to have only a simple fax machine. When a student requests that a transcript accompany an electronic application, a request for the transcript is automatically generated by the application servicer and transmitted to the high school. The request includes a return facsimile cover sheet that includes an identifier that can be automatically machine-interpreted when the cover sheet is transmitted back to the servicer with the transcript. The identifier marking is sufficiently robust that it will be machine interpretable, even after rough treatment or serial copying and transmission by the high school. Upon receipt of the transcript facsimile, the servicer automatically interprets the identifying information on the return facsimile cover sheet to identify the student and the particular admissions application for which the transcript was request. The transcript is forwarded preferably along with application to the appropriate institution after being converted, if necessary, to a data format specified by the institution. The servicer may also store the transcript in electronic form in a secure database for subsequent transmission for a a different term or to different institution. Each facsimile cover sheet is preferably "branded" with the logo of the institution to which the student is applying, although the return facsimile number is preferably a toll free number to a computer facsimile server of the servicer. Thus, the servicer can be invisible to the high school.

Applicant submits the application for examination.

Respectfully submitted,

FULBRIGHT & JAWORSKI, L.L.P.

Date: 2/9/2,000

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S. Leslie Marlow

S. Leslie Marlow

Name

Signature

S P E C I F I C A T I O N

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT We, Michael D. Hitchcock, a citizen of the United States of America
and a resident of Portland, Oregon, James H. Wolfston, a citizen of the United States of America and
a resident of West Linn, Oregon, and Matthew W. Hickey, a citizen of the United States of American
and a resident of Portland, Oregon have invented certain new and useful improvements in a:

A METHOD FOR PAPERLESS ATTACHMENT OF SUPPLEMENTARY FORMS TO A WORLD WIDE WEB APPLICATION

-1-

**A METHOD FOR PAPERLESS ATTACHMENT OF SUPPLEMENTARY
FORMS TO A WORLD WIDE WEB APPLICATION.**

Related Applications

5 This application claims priority from U.S. Provisional patent application 60/119,496, filed February 10, 1999.

Technical Field

This invention relates to a method and apparatus for electronic processing of forms over a global computer network, and in particular, to attaching documents from a variety of sources to electronic forms.

Background of the Invention

There are many advantages to the electronic filing of applications for admission to 15 institutions of higher learning, such as colleges and universities. Electronic applications provide the institution with application data almost immediately after the application is completed, and data is in a form that is immediately accessible for processing by admissions personnel to assist in recruiting efforts. Although some schools allow direct electronic application, many chose to take advantage of the special expertise available at service providers, such as CollegeNET, Inc., the creator of the 20 ApplyWeb™ system that services institutions and students by, among other things, processing admission applications. The ApplyWeb™ system is powered by the Universal Forms Engine, which

-2-

is owned by Universal Algorithms and is described in co-pending U.S. Pat. Appl. No. 09/325,533, which is hereby incorporated by reference.

The ApplyWeb™ system handles the applications and fee processing for many institutions and provides the institutions with the data they want in the form they require. ApplyWeb™ services
5 can be transparent to the student, allowing applications to be “branded” with an institution’s own logo and making applications accessible to potential students through the university’s web site, or through the CollegeNet site of CollegeNET, Inc.

When applicants using the ApplyWeb™ system enter information into an application, the information is stored and automatically populates corresponding fields in subsequent applications. Unfortunately, certain attachments to applications, such as high school transcripts, must still be separately mailed to the institution and processed manually. Thus, until the high school mails a transcript to the college or university, the application package is not complete.

Although some high schools have the equipment to convert a transcript to digital form by scanning and e-mailing the transcript to the institution, many high schools do not yet have such
15 technology. Moreover, upon receiving a scanned transcript, the institution would still have the problem of matching the transcript with the application. Lastly, the large number of high schools and institutions, combined with the many different data formats available, makes electronic data transfer directly between high schools and institutions a difficult problem.

20 Summary of the Invention

An object of the invention is paperless processing of admission applications.

-3-

Another object of the invention is to present a complete electronic applications package to an institution.

Another object of the invention is to allow high schools with technology limited to a simple fax machine to provide electronic transcripts in a form useful to an institution.

5 Still another object of the invention is to allow electronic admissions applications to be sufficiently complete for processing without requiring mailing of attachments.

Yet another object of the invention is to facilitate the attachment of documents from any of multiple sources to an electronic form to be transmitted to any of multiple destinations.

Additional objects, advantages and novel features of the invention will become apparent from the detailed description and drawings of the invention.

In accordance with the invention, an electronic copy of a high school transcript can be attached to an electronic application for admission to an institution. The high school providing the transcript is required to have only a simple fax machine. When a student requests that a transcript accompany an electronic application, a request for the transcript is automatically generated by the application servicer and transmitted to the high school. The request includes a return facsimile cover sheet that includes an identifier that can be automatically machine-interpreted when the cover sheet is transmitted back to the servicer with the transcript. The identifier marking is sufficiently robust that it will be machine interpretable, even after rough treatment or serial copying and transmission by the high school. Upon receipt of the transcript facsimile, the servicer automatically interprets the identifying information on the return facsimile cover sheet to identify the student and the particular admissions application for which the transcript was request. The transcript is forwarded preferably

-4-

along with application to the appropriate institution after being converted, if necessary, to a data format specified by the institution.

The servicer may also store the transcript in electronic form in a secure database. When the student completes another application for admission to a different institution or a different term, the 5 electronic copy of the transcript can be attached to the new application without requiring another transmission from the high school. Each facsimile cover sheet is preferably "branded" with the logo of the institution to which the student is applying, although the return facsimile number is preferably a toll free number to a computer facsimile server of the servicer. Thus, the servicer can be invisible to the high school.

The system of the present invention eliminates the requirement for the institution to match up a later-received paper transcript with an earlier received electronic application. It also simplifies the high school's job of sending transcripts because the high school does not need to read and understand the student's request, verify the student's signature, identify the institution to which the transcript is to be mailed, generate a transmittal letter, and address and put postage on an envelope. 15 A facsimile request in accordance with the invention is in a standard, easy to read format and the high school merely reads the clearly identified student name and transmits the transcript to the toll free number using the cover sheet provided.

The invention is not limited to use with high school transcripts and admissions applications, but is useful in any situation in which documents from multiple providers need to be associated 20 together and forwarded to a document recipient. In particular, the invention can be used when one or more documents from one or more document providers from a first group of document providers

-5-

needs to be associated with an electronic form for transmission to one or more members of a group of recipients. The invention solves the problem of collating multiple documents from multiple sources of varying technological capacities for forwarding to multiple recipients.

The foregoing has outlined rather broadly the features and technical advantages of the present invention in order that the detailed description of the invention that follows may be better understood. Additional features and advantages of the invention will be described hereinafter which form the subject of the claims of the invention. It should be appreciated by those skilled in the art that the conception and specific embodiment disclosed may be readily utilized as a basis for modifying or designing other structures for carrying out the same purposes of the present invention. It should also be realized by those skilled in the art that such equivalent constructions do not depart from the spirit and scope of the invention as set forth in the appended claims.

Brief Description of the Drawings

For a more complete understanding of the present invention, and the advantages thereof, reference is now made to the following descriptions taken in conjunction with the accompanying drawings, in which:

FIG. 1 is a block diagram showing multiple applicants, high schools, and institutions sharing transcript information through a servicer.

FIG. 2 is flow chart showing steps of a method of the present invention.

FIG. 3 is flow chart showing additional steps of a method of the present invention.

-6-

FIG. 4 is a block diagram showing the hardware and software used in carrying the method of FIGS. 2 and 3.

FIG. 5 shows a simplified drawing of a package including a return facsimile transmitted by the high school to the servicer.

5 FIG. 6 is a block diagram showing institutions contacting high schools to enlist them in the system.

Detailed Description of Preferred Embodiments

FIG. 1 is a block diagram showing the flow of information in a preferred embodiment of the present invention, in which students 10a-10i (referred to generally as student 10) can submit electronic admission applications including electronic copies of transcripts from high schools 12a-12d (referred to generally as high school 12) over a computer network 14, such as the Internet, to institutions 16a, 16b, 16c, or 16d (referred to generally as institution 16).

15 The admissions applications are preferably administered by a servicer 18 that can present an application that is customized and branded for any institution. Servicer 18 can also verify application filing time windows, maintain student information to populate fields of subsequent application, customize the format of the application data for each institution, provide standardized test scores from the tester's database, and handle the electronic payment of the application fee. Servicer 18 may also provided other services to the students and institutions, such as recruiting
20 and school-student matching assistance.

-7-

FIGS. 2 and 3 show the steps involved in a preferred embodiment of the present invention, and FIG. 4 shows some of the hardware and software used in those steps. A student 10 uses a student computer 26, such as an IBM compatible or a Macintosh personal computer, to request over computer network 14, preferably the Internet, an electronic application form from servicer 18. Servicer 18 operates one or more server computers 28, such as Sun Solaris UltraSparc Servers, for carrying out the invention. Server computer 28 executes Internet communications software 32 software, such as Apache HTTPD Server from The Apache Group, www.apache.org, to communicate over the Internet. Server computers 28 also executes, preferably behind a firewall, forms software 34, such as the Universal Forms Engine described in U.S. Pat. Appl. No. 09/325,533, for generating and processing application forms. Server computer 28 also executes facsimile transmission and receiving software 38, such as HylaFAX™ available from hylafax.org, and image recognition software 40, such as OCR Shop software available from Vividata, Inc. for sending and receiving facsimiles and for converting facsimile images into text. Server 28 includes data storage 42 for storing information used in carrying out the invention. Skilled persons will understand that, although server 28 is depicted as a single computer, separate computers are preferably used for Internet communications, facsimile communications, and for application execution. The software operating on the various computers communicate with each other using standard protocols such as CGI or Apache API.

As student 10 completes each page of an application, the data typically undergoes some preliminary data verification. After student 10 has completed all the pages of the application, as

-8-

shown in step 46, the servicer is ready to attach addition forms, process the application fee, and transmit the application to the institution.

At this time, step 48 shows that forms engine 34, checks information in data storage 42 to see whether the student's high school 12 participates in the transcript program. Each high school has a unique identifier. The identifier could be, for example, the ACT/CEEB standard high school code, another code, or some combination of the high school name and address. The names and/or codes of the high schools participating in the program are maintained in a database. The name or code of the student's high school is available to the CGI program because it had processed previous pages of the application, one of which included the name of the high school.

Step 48 also shows that the CGI program checks to determine whether the institution to which the student is applying accepts electronic transcripts with its electronic applications. If either condition is not met, the forms engine processes the application fee and transmits the application to an institution computer 54 at institution 16 in step 56. If both conditions are met, the forms engine presents information to student 10 describing the electronic transcript system, including the fee, if any, and presents student 10 with an option in step 58 to transmit a transcript with the application.

If the student indicates that no electronic transcript is to be sent, the regular application fee is processed and the application is forwarded to the institution in step 56. If the student indicates that he desires a transcript to be sent with his application, the forms engine checks in step 68 to see whether there is a transcript fee waiver agreement between the institution and the high school. In a transcript fee waiver agreement, the institution may agree to pay the cost of

-9-

the transcript for the student. Institutions may use such agreements with high schools in low income areas. Moreover, such agreements encourage the students to use the electronic transcript service, thereby simplifying application processing for the institution, which does not then need to process the paper transcript. If there is a transcript fee waiver agreement in place, step 70
5 shows that the application fee alone is processed. If there is no transcript fee waiver agreement, step 72 shows that the application fee and the transcript fee are processed. Processing a fee entails initiating the electronic funds transfer process to pay for the transaction.

The forms engine then checks in step 78 to see whether a current transcript is available in a secure transcript database 82 in data storage 42. If a current transcript is available, the transcript in electronic form is attached to the electronic application and both are sent in step 84 in electronic form to institution computer 54 at the institution 16. An indication in the transmittal data for the application informs the institution that a transcript is attached.

If secure transcript database 82 does not include a current transcript, step 86 shows that the forms engine checks to see whether the institution is willing to accept the application with the transcript to follow. If so, step 90 shows that the application is transmitted to an institution computer 54 with a flag indicating that a transcript has been ordered but is not attached. In most cases, institution 16 will prefer that servicer 18 retain the application until a transcript is available and can be attached to the application. In step 92, a request for the transcript is automatically generated and transmitted to the high school, typically via facsimile. A fax machine 96 at the
20 high school receives the request. The request identifies the student that is requesting the transcript, preferably by name and student identification number. The request also includes a

-10-

facsimile cover sheet 98 (FIG. 5) for high school 12 to use when transmitting the transcript back to servicer 18. FIG. 5 shows the transcript package returned via facsimile from the high school high school 12 to servicer 18. The return facsimile cover sheet 98 includes machine-interpretable identifying information 100 so that the transcript following the cover sheet can be readily 5 associated with the proper student and application at servicer 18 without human intervention.

For example, the identifying information can be in the form of alphanumeric characters in a font that is readable by commercial optical character recognition software or in the form of 10 bar code. Such fonts and bar codes and their interpreters are well known in the art. Identifying information 100 on facsimile cover sheet 98 must be robust so that it will be machine recognizable, even after rough treatment and serial photocopying and facsimile transmission by the high school. Identifying information 100 is therefore preferably in a very large optical 15 character recognition (OCR) font or bar code. Although FIG. 5 shows identifying information in both bar code and character format, either format alone is sufficient. The identifying information could include, for example, an order identifier including a code for the institution to which the application is addressed, the student's user identifier and a date-time code indicating when the application was submitted.

Upon receiving the transcript request on its facsimile machine 96, high school 12 obtains a copy of the student's transcript from its files or database in step 108 (FIG. 3) and in step 110 transmits the copy via facsimile to a toll free number 112 specified on the return facsimile cover 20 sheet 98. In some embodiments, a facsimile trailing sheet 114 is also included in the request

-11-

transmitted to high school 12. The trailing sheet 114 is used by the automated software at servicer 18 to signal the end of a multi-page transcript 116.

The facsimile of the high school transcript 116 and cover sheet 98 from the high school is received by a computer 28 at servicer 18 in step 120. A program in a facsimile server portion 5 of computer 28 converts the data from facsimile format to a data format that can be processed by the appropriate interpretation software 40 to interpret in step 126 the identifying information 100 on the cover sheet 98. For example, the facsimile data may be converted to a standard graphics file that can be used with optical character or bar code recognition software. Such software is well known in the art. The identifying information is then interpreted and the transcript is matched with a specific student and application. Thus, facsimile information from the high school is preferably processed automatically, entirely in electronic form, and it need not be printed.

Step 128 shows that if the transmission was unsuccessful, either because the cover page could not be matched with an application or because the complete facsimile was not received, a 15 request for retransmission is sent to the high school in step 130, preferably as part of a periodic status report describing the status of all pending transcript requests. When the transcript is successfully received and the cover sheet is interpreted and matched with an application, servicer 18 transmits an acknowledgment in step 132 to the sending high school either individually for each transcript or as part of a status report.

In step 134, the electronic version of the transcript is stored in secure, encrypted storage 82 at servicer 18. In step 136, the forms engine determines whether the application was previously

-12-

transmitted to the institution without a transcript. If so, step 142 shows that the transcript is forwarded to the institution, where it is matched to the application in step 144, and receipt of the transcript is acknowledged in step 148. In the more common case in which the application was held by servicer 18 pending receipt of transcript 32, servicer 18 now automatically attaches transcript 116 to the application in step 150 and forwards the package to the institution in step 152. Institution 16 can store the received transcript as part of the admissions application for viewing when they review the transcript, or it can print the transcript and maintain it in a physical file. In step 148, the institution acknowledges receipt of the electronic transcript, preferably as part of a periodic status update. Servicer 18 can provide the transcript in any electronic format specified by the institution

An expiration date can be assigned to stored transcript 116, after which time it will not be used. High schools can be requested to automatically update the transcripts stored in the transcript database 82 at periodic intervals. Servicer 18 sends status reports to each high school 12 periodically, providing status information of pending transcripts request, transcripts received, and requests for re-transmittal (*i.e.*, in the case that the received document was illegible).

The system is preferably integrated into a complete applications system, that can access, for example, standardized test results and provide those results as part of admissions applications to institutions 16, thereby ensuring the integrity of the scores on the application and obviating the need to have the testing entity mail the scores to the institution.

Like the application itself, a transcript contains private information that cannot be released without authorization from the student. When a student completes an application with the

-13-

servicer, the student can authorize transmission of the transcript. The servicer requires a credit card number to process any transaction, thereby providing a level of security by identifying the transcript requestor. Moreover, transcripts are transmitted only to the servicer, who forwards the transcripts only to institutions registered with it and specified by the student.

5 A transcript can be transmitted via facsimile from any high school that is willing to accept a request from the servicer and return the facsimile request using the return facsimile cover sheet. It is desirable, however, for high schools to register with the institution or servicer so that they can be instructed in the system and be assured that any transcript request has been authorized by the student. Because transmission of the facsimile copy of the transcript from the high school to servicer 18 is typically over telephone lines and not over the open Internet, the transcript need not be encrypted during that transmission.

One method of registering participating high schools, shown schematically in FIG. 6, is to have institutions request that their primary feeder schools participate in the system. The institution that contacts the high school provides it with a sample facsimile cover sheet and 15 instructs the high school in using the system. The high school commits to forward transcripts in a timely manner and review regular status reports to ensure that transcripts are being transmitted successfully. In return, the high school's administrative overhead associated with sending transcripts is greatly reduced, and postage costs for transcripts is eliminated. The high school is no longer required to read and understand each student's transcript request, verify the 20 student's signature, identify the institution to which the transcript is to be sent, generate a transmittal letter, and address and post an envelope.

-14-

Once a high school is registered by one institution, any student of that high school can have his transcript sent to any institution using servicer 18. Institutions could also be notified by servicer 18 when a student applies from a high school that is not yet registered, and the institution or the servicer can contact the high school and enlist it in the program. Institutions that recruit 5 a high school into the system could add the high school to the database of registered high schools.

In an integrated application system such as the ApplyWeb® system of the assignee, the status of the transcript request can be displayed in the applicant's 'Personal Log' of the application processing system. The log can show, for example, that the transcript has been transmitted to the institution from secure electronic storage or that a request for transcript has been transmitted to the high school, but the transcript is not yet received.

Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions and alterations can be made herein without departing from the spirit and scope of the invention as defined by the appended claims. For example, information in the transcript itself can be interpreted by the automated software and converted to text, so that the transcript information can be saved as text or data base entries, rather than as graphical data. Skilled persons will recognize that the invention can be used in a wide variety of situations in which it is necessary to attach information to a form, such as attaching a resume or a writing sample to an employment application. The invention could also be implemented by an individual institution, rather than through a provider that services multiple 15 institutions.

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The scope of the present application is not intended to be limited to the particular embodiments of the process, machine, manufacture, composition of matter, means, methods and steps described in the specification. As one of ordinary skill in the art will readily appreciate from the disclosure of the present invention, processes, machines, manufacture, compositions of matter, means, methods, or steps, presently existing or later to be developed that perform substantially the same function or achieve substantially the same result as the corresponding embodiments described herein may be utilized according to the present invention. Accordingly, the appended claims are intended to include within their scope such processes, machines, manufacture, compositions of matter, means, methods, or steps.

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CLAIMS

1. A method of on-line processing of applications for admission to institutions, the applications requiring as attachments documents obtainable from third parties, comprising:
 - transmitting over a computer network to an applicant an application form to complete;
 - receiving over the computer network from the applicant a completed application;
 - automatically transmitting to a third party via facsimile a request for a document to be associated with the application;
 - receiving from the third party as facsimile data the document along with machine readable identifying information indicating the application to which the document is to be associated; and
 - automatically determining from the facsimile data the identifying information and associating the facsimile data with the application, whereby the third party uses only a facsimile transmission device to transmit the document in electronic form and the machine readable identifying information facilitates automatic matching of the document with the application at the institution.

2. The method of claim 1 in which:

- automatically transmitting to a third party via facsimile a request for a document to be attached to the application includes transmitting a return facsimile cover sheet to be used with the return transmission; and

returning via facsimile the document along with machine readable identifying information includes transmitting the return facsimile cover sheet.

3. The method of claim 2 in which the return facsimile cover sheet includes identifying information in the form a bar code.

4. The method of claim 2 in which the return facsimile cover sheet includes identifying information in the form of recognizable alphanumeric characters.

5. The method of claim 1 in which the document comprises a transcript.

6. The method of claim 1 further comprising storing the document in a file in electronic facsimile format in association with an applicant, the file being available for subsequent applications completed by the applicant.

7. The method of claim 1 in which automatically transmitting to a third party includes verifying that the third party has agreed to return the document via facsimile.

8. The method of claim 1 in which automatically transmitting to a third party includes verifying that the institution accepts electronic attachments to its applications.

9. The method of claim 1 further comprising transmitting the application and the document to the institution.

10. The method of claim 9 in which the application and the document are transmitted together to the institution.

11. The method of claim 9 in which the application and the document are transmitted at different times to the institution and the identifying information is used to match the document with the application.

-18-

12. An apparatus for processing electronic forms, the electronic forms requiring attachment of paper forms from third parties, comprising:

 a server transmitting a form to an applicant for completion and for receiving the completed form posted by the applicant;

 a facsimile transmission device for transmitting in accordance with an instruction from the server a request for a document to be attached to the form, the request including identifying information for associating the returned document with the form;

 a facsimile receiving device for receiving the returned document and identifying information in facsimile format; and

 an automatic interpreter for interpreting the identifying information and associating the document with a specific form received by the server.

13. The apparatus of claim 12 in which the server transmits the forms and the document to an institution.

14. The apparatus of claim 13 in which the server transmits the form to the institution after receiving the document.

15. The apparatus of claim 12 in which the interpreter includes a bar code interpreter.

16. The apparatus of claim 12 in which the interpreter includes an alphanumeric character recognition.

-19-

17. A method of associating first information in electronic form from a first source with second information in printed form from a second source, the method comprising:
receiving the first information in electronic form over a computer network from the first source;

transmitting a request for the second information in printed form to the second source;

receiving the second information in electronic facsimile format from the second source, the second information including automatically interpretable identifying information;

automatically interpreting the identifying information; and
using the identifying information to automatically associate the printed information with the electronic information.

18. The method of claim 17 in which transmitting a request for the second information to the second source includes automatically transmitting a request via facsimile, the request including a return facsimile cover sheet including the automatically interpretable identifying information.

19. The method of claim 17 in which the automatically interpretable identifying information includes a bar code.

20. The method of claim 17 in which the automatically interpretable identifying information includes alphanumeric characters.

-20-

21. The method of claim 17 in which the first information comprises an admissions application and the second information comprises a transcript.

22. The method of claim 17 in which receiving the first and second information is received by a third party servicer and further comprising transmitting the first and second information to an end user of the information.

23. The method of claim 17 further comprising transmitting the second information and a return facsimile cover sheet including the automatically interpretable identifying information in response to the request for the second information

24. The method of claim 17 in which transmitting a request for the second information includes determining whether the second source has agreed to transmit via facsimile the second information.

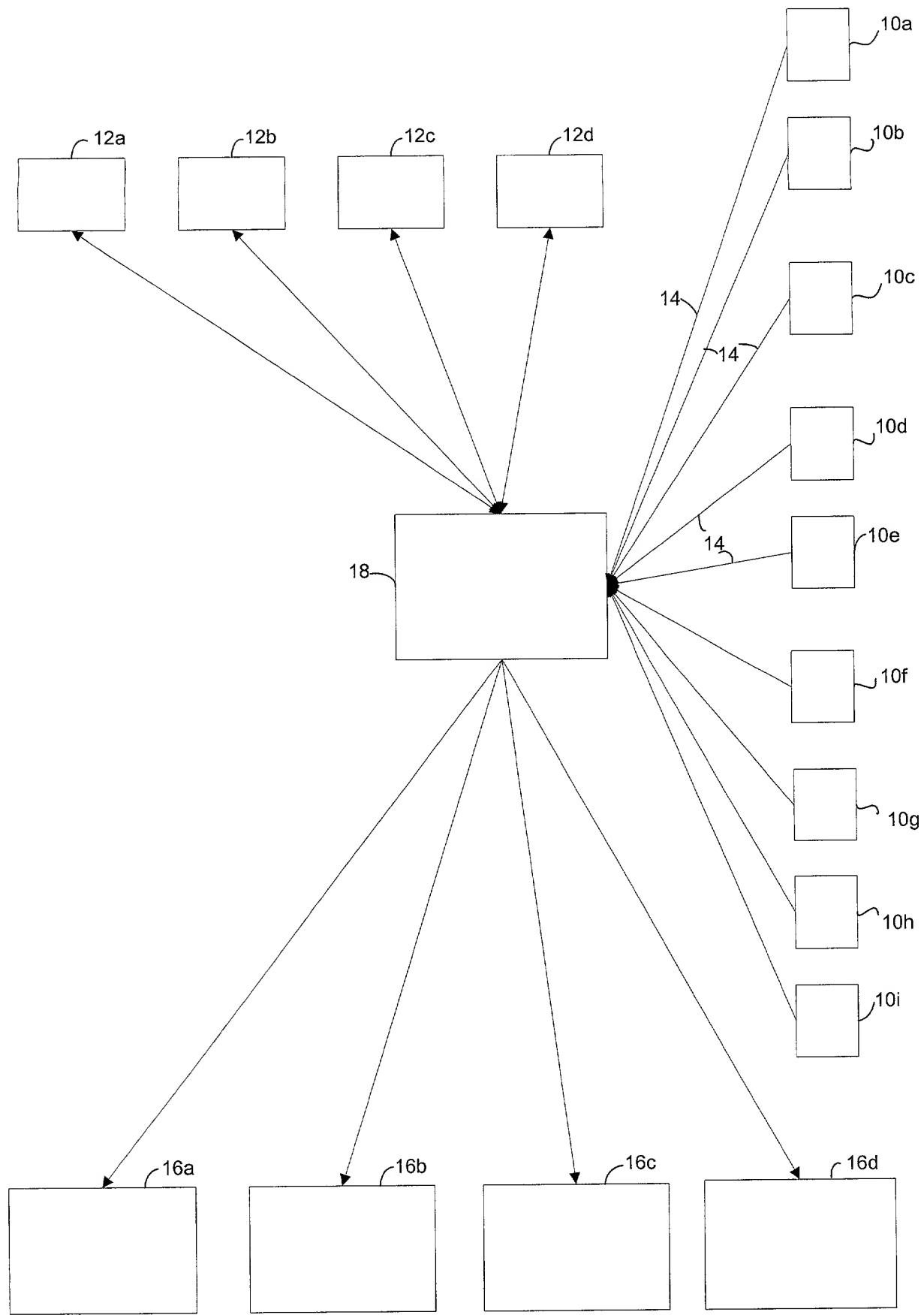


FIG. 1

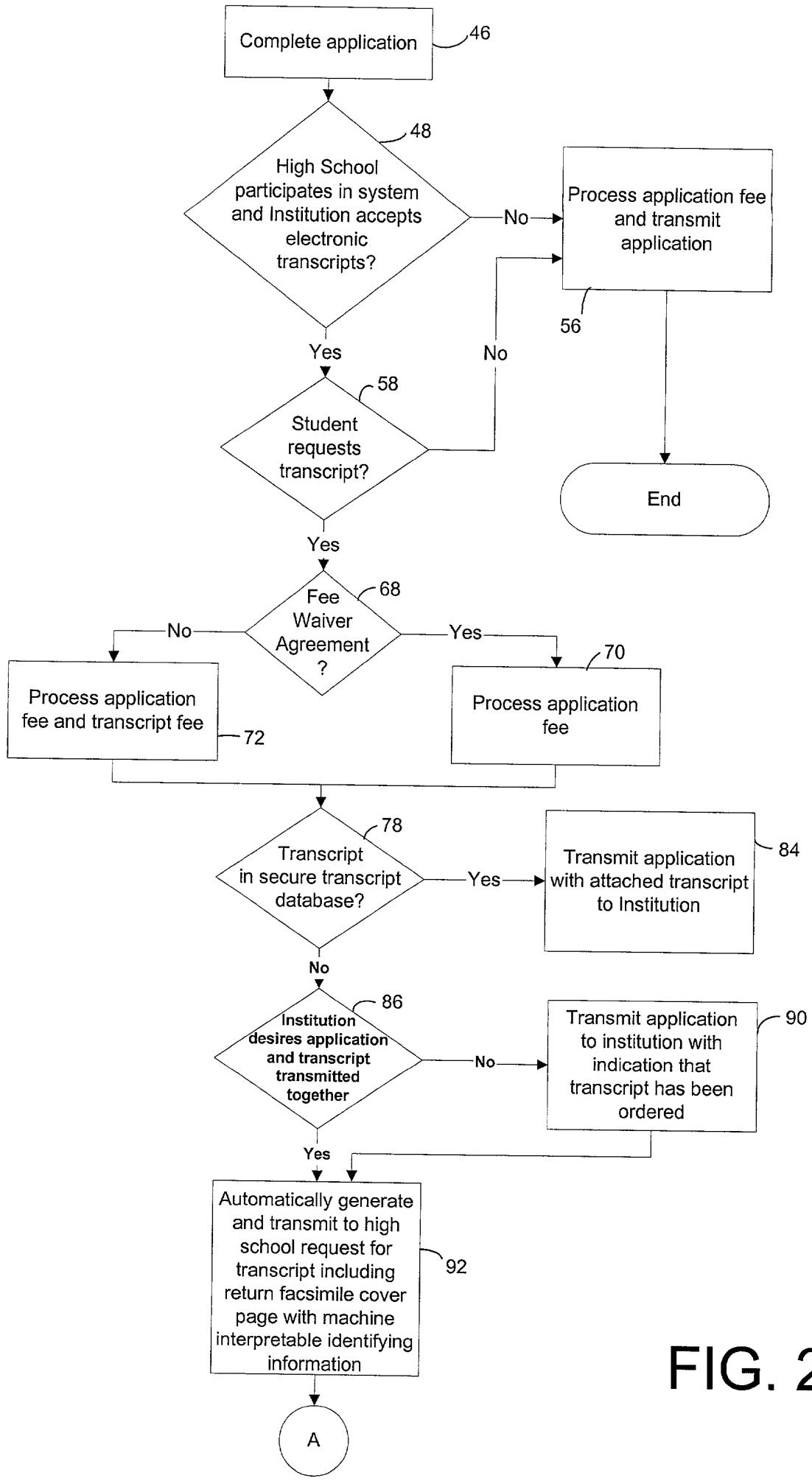


FIG. 2

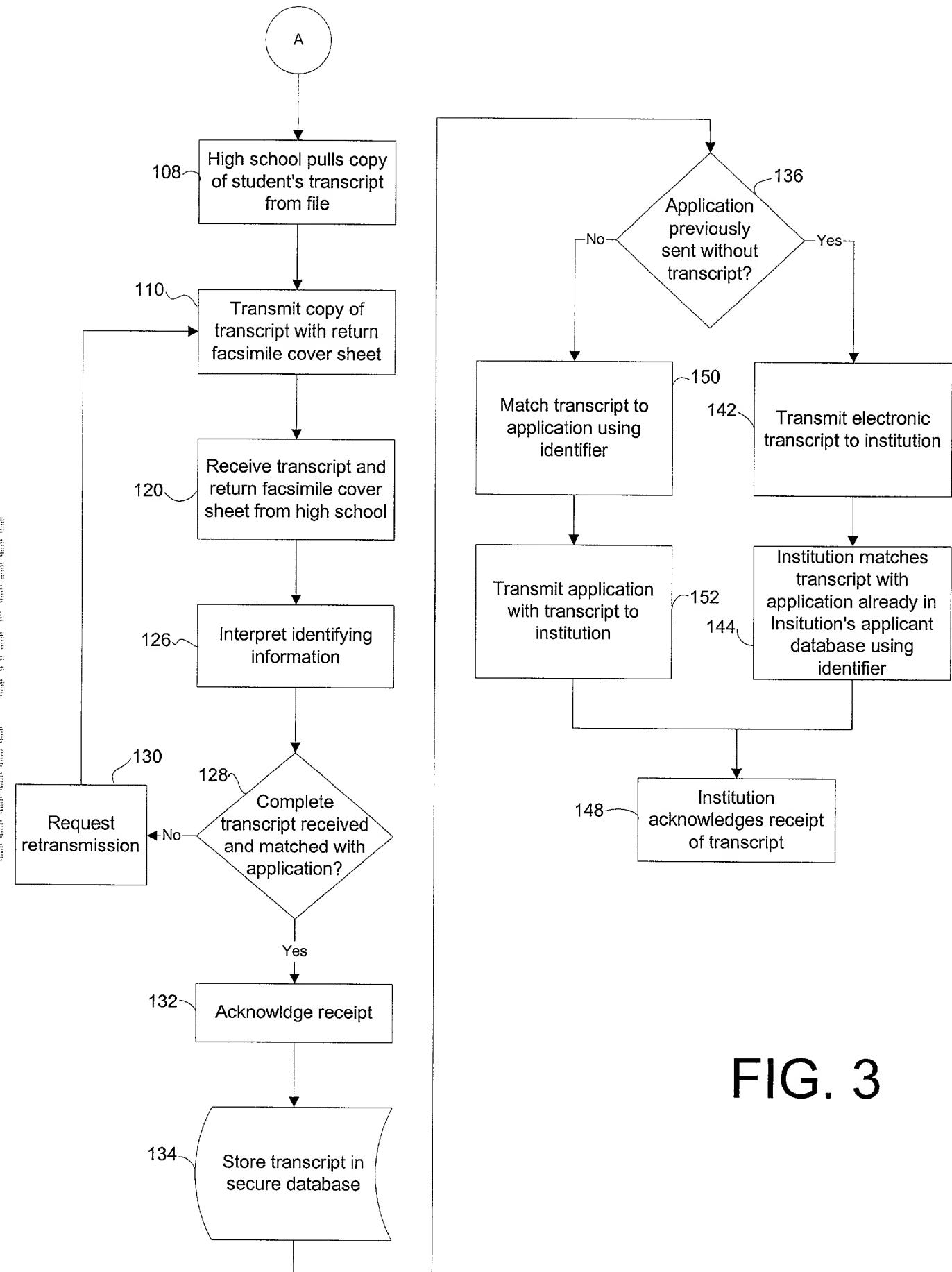


FIG. 3

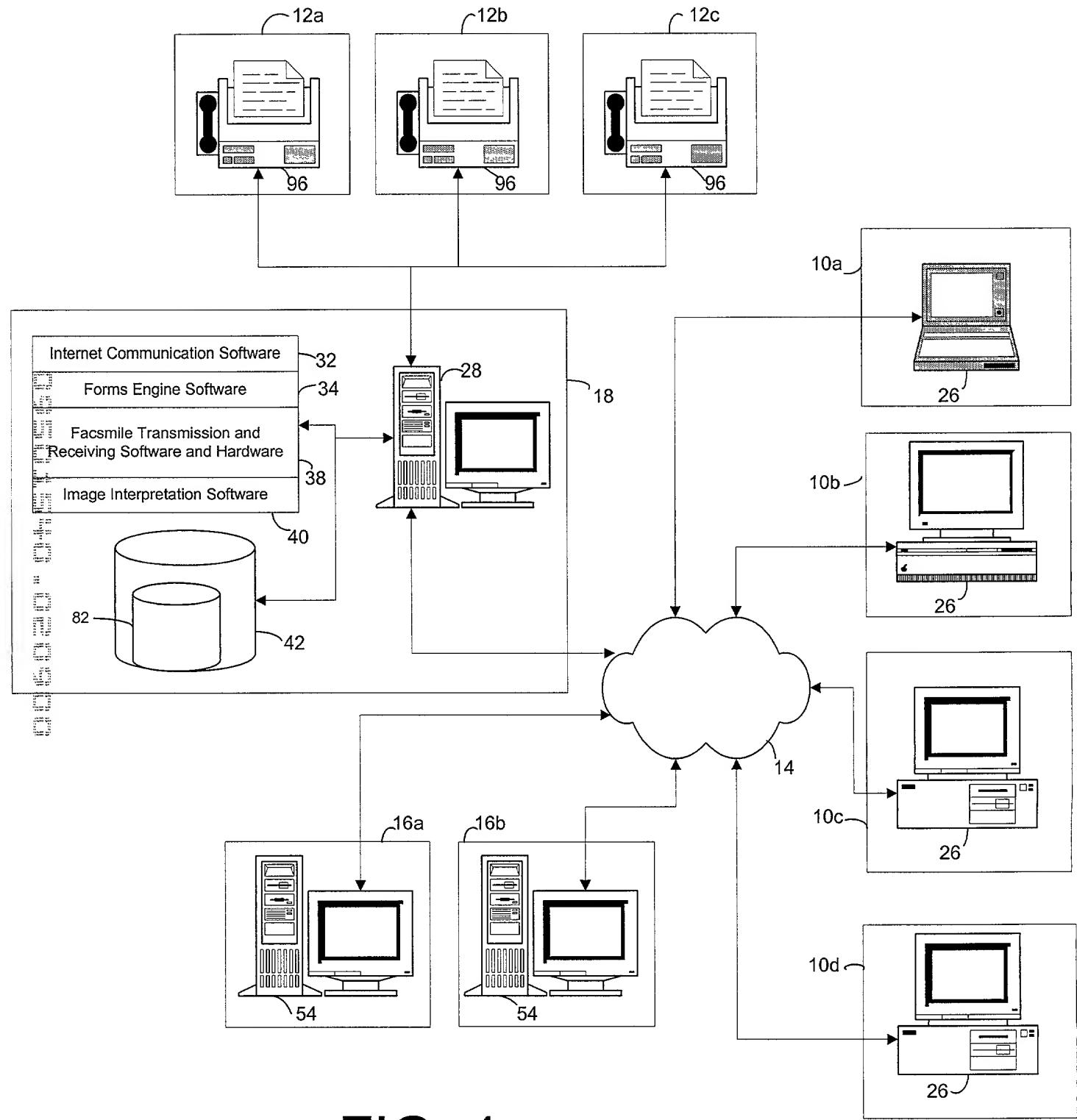
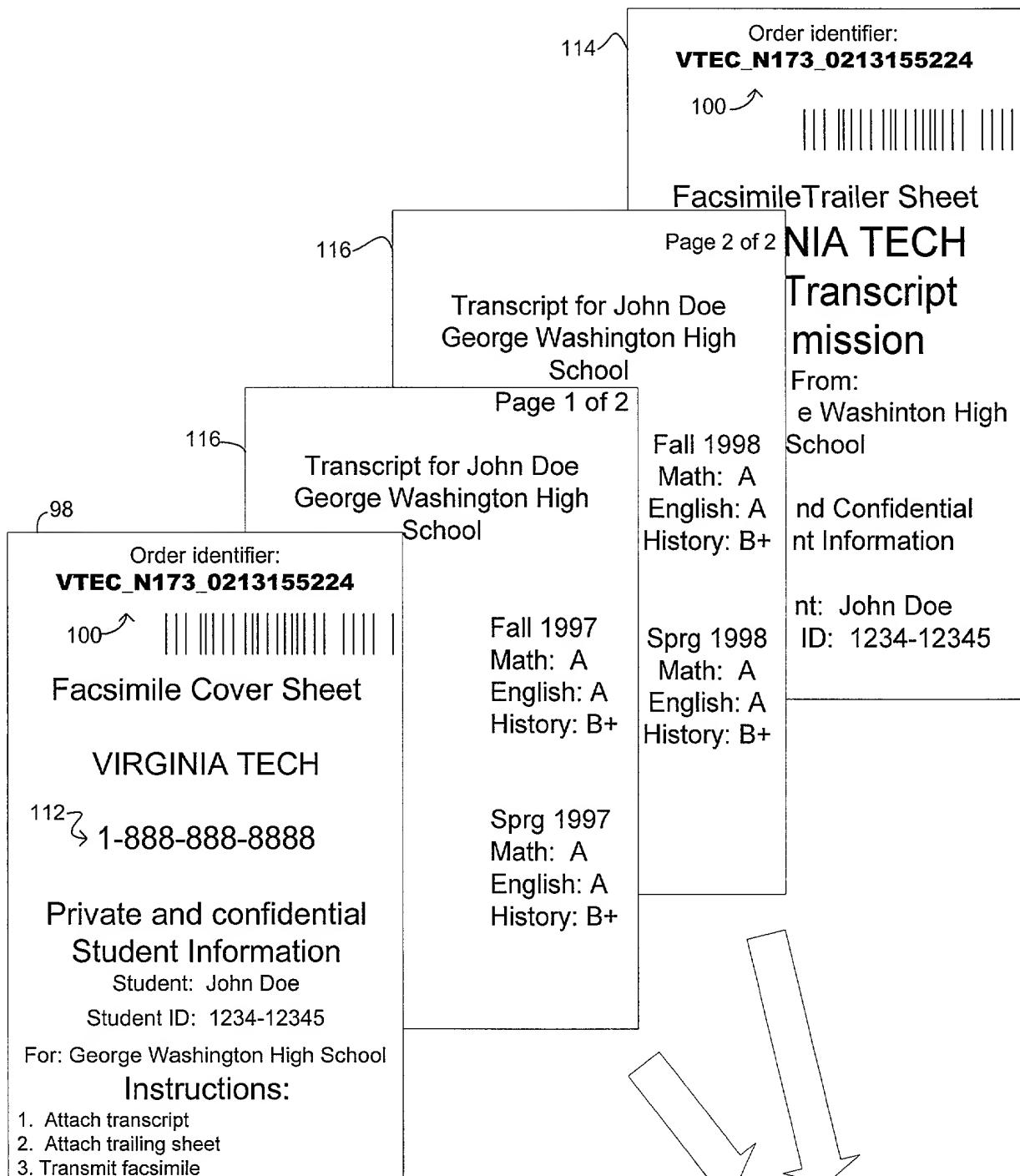


FIG. 4



82 ↗

Secure transcript
database

FIG. 5

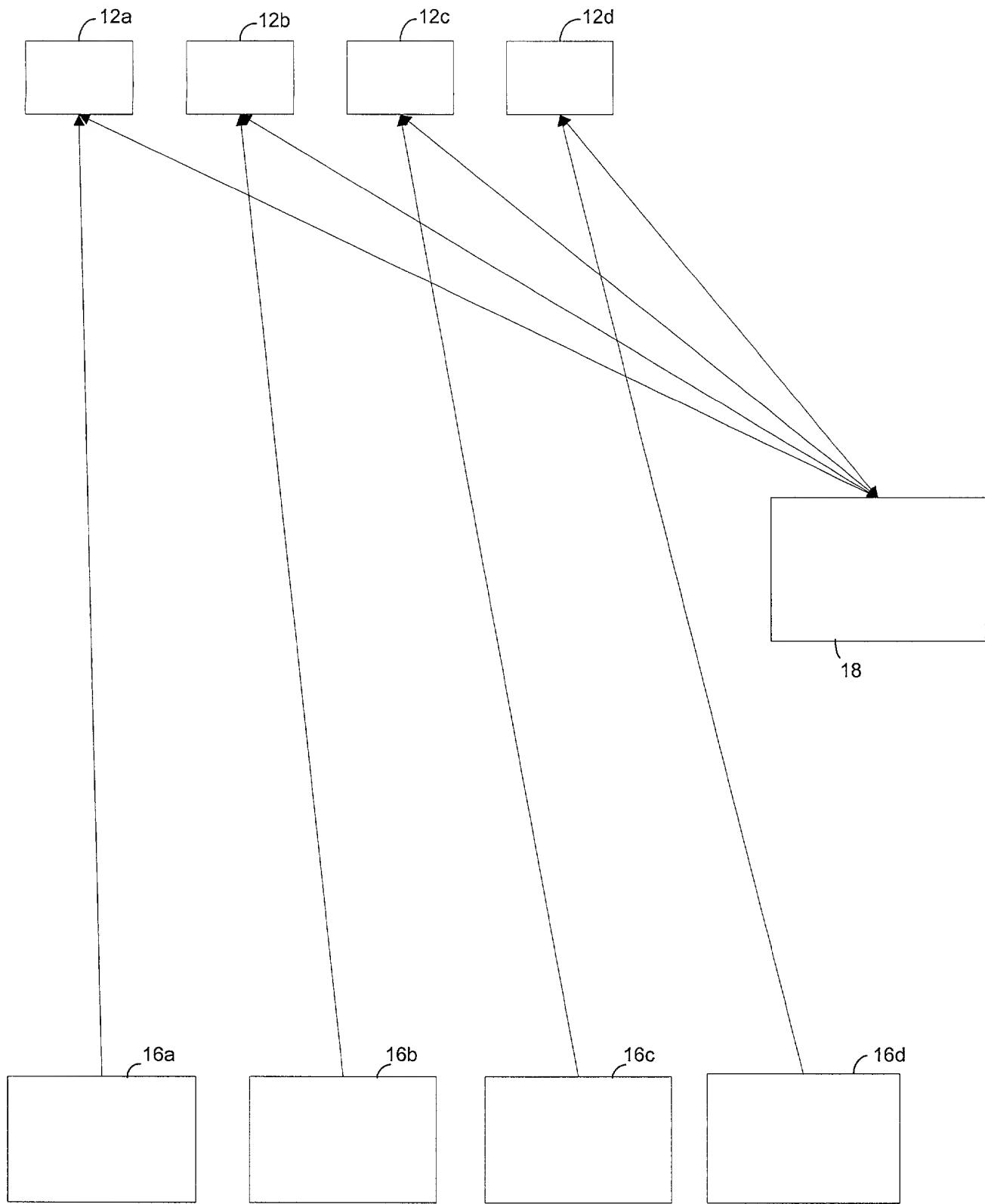


FIG. 6

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

1. My residence, post office address and citizenship are as stated below next to my name.
2. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **A METHOD FOR PAPERLESS ATTACHMENT OF SUPPLEMENTARY FORMS TO A WORLD WIDE WEB APPLICATION**,
the specification of which:

is attached hereto.

was filed on _____, Application Serial No. _____,
and was amended on _____
(if applicable)
3. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
4. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).
5. I acknowledge the duty to disclose to the Office all information known to be material to patentability as defined in § 1.56.
6. I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

			<u>Priority Claimed</u>	
<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year Filed)</u>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	Yes	No

7. I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

Prior Provisional Application(s)

			<u>Priority Claimed</u>	
<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year Filed)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
60/119,496	U.S.A.	February 10, 1998	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	Yes	No

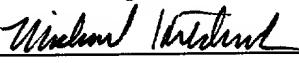
8. I hereby claim the benefit under Title 35, United States Code, § 120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims in this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Application(s)

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

9. I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Michael O. Scheinberg, Reg. No. 36,919; Scott Denko, Reg. No. 37,606; Patrick Stellitano, Reg. No. P-42,169; Erik R. Nordstrom, Reg. No. 39,792, Louis T. Pirkey, Reg. No. 22,393, Richard J. Groos, Reg. No. 32,231, David L. Parker, Reg. No. 32,165, William G. Barber, Reg. No. 33,154, David D. Bahler, Reg. No. 30,932, Stephen D. Dellett, Reg. No. 32,564, Michael S. Metteauer, Reg. No. 34,875, Mark B. Wilson, Reg. No. 37,259, Steven L. Highlander, Reg. No. 37,642, Mark A. Thurmon, Reg. No. 39,858, Teresa J. Bowles, Reg. No. 40,526, Stephen P. Meleen, Reg. No. 40,724, Richard A. Nakashima, Reg. No. 42,023, Robert Hanson, Reg. No. 42,628, Nicole Stafford, Reg. No. 43,929, Michael C. Barrett, Reg. No. 44,523, Mark T. Garrett, Reg. No. 44,699, Jonathan Hurt, Reg. No. 44,790, Gina N. Shishima, Reg. No. 45,104, Debra L. Dennett, Reg. No. P-46,370, Stephen M. Hash, Reg. No. P-45,490, and Karl D. Normington, Reg. No. P-45,586

10. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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